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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,166	12/04/2001	Pavel I. Lazarcv	A-71153/AJT	2857
7590 10/29/2004 FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP Suite 3400 Four Embarcadero Center San Francisco, CA 94111-4187			EXAMINER	
			HON, SOW FUN	
			ART UNIT	PAPER NUMBER
			1772	
			DATE MAILED: 10/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Advisory Action	10/006,166	LAZAREV, PAVEL I.				
	Examiner	Art Unit				
	Sow-Fun Hon	1772				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE REPLY FILED 15 October 2004 FAILS TO PLACE. Therefore, further action by the applicant is required to av final rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this applica	ation. A proper reply to a				
	PLY [check either a) or b)]					
a) \(\times \) The period for reply expires \(\frac{5}{2} \) months from the mailing date of the final rejection. b) \(\times \) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In						
no event, however, will the statutory period for reply expire la ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The offee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the content of the	After than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF THE date on which the petition under 37 CFF extension and the corresponding amount in the shortened statutory period for reply control of the mail of the ma	g date of the final rejection. IE FINAL REJECTION. See MPEP R 1.136(a) and the appropriate extension and of the fee. The appropriate extension priginally set in the final Office and in the propriate extension of the fee.				
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.						
2. The proposed amendment(s) will not be entered be	cause:					
(a) ⊠ they raise new issues that would require further consideration and/or search (see NOTE below);						
(b) they raise the issue of new matter (see Note below);						
(c) ☐ they are not deemed to place the application in issues for appeal; and/or	better form for appeal by mater	ially reducing or simplifying the				
(d) 🔲 they present additional claims without canceling a corresponding number of finally rejected claims.						
NOTE: <u>See attachment to advisory action</u> .						
3. Applicant's reply has overcome the following rejection(s):						
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).						
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reapplication in condition for allowance because:	econsideration has been consid 	ered but does NOT place the				
6. The affidavit or exhibit will NOT be considered becauraised by the Examiner in the final rejection.	use it is not directed SOLELY to	issues which were newly				
7. For purposes of Appeal, the proposed amendment(s explanation of how the new or amended claims would be appeared to the proposed amendment of t	s) a)⊠ will not be entered or b)[ıld be rejected is provided below	☐ will be entered and an				
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed: None.						
Claim(s) objected to: None.						
Claim(s) rejected: <u>1-51</u> .						
Claim(s) withdrawn from consideration: None.						
8. The drawing correction filed on is a) approved or b) disapproved by the Examiner.						
9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)						
10. Other: Attachment to advisory action.						

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Advisory Action

- 1. The proposed amendment will not be entered because the new limitations of "a front panel of functional layers facing an observer" coupled with "at the exit of the front panel" raises new issues that would require further consideration and/or search.
- 2. Applicant argues that Miroshin teaches that the birefringent anisotropically absorbing layer has the characteristic which provides the interference extremum, but not the liquid crystal material, since liquid crystal is not anisotropically absorbing.

Applicant is respectfully apprised that the anisotropic layer of Miroshin (column 8, lines 35-60) comprises an oriented (column 11, lines 40-60) film of organic dye where {Chromogene}(SO₃)_n is the dye K of Applicant which contains the SO₃⁻ionogenic groups which provide its solubility in polar solvents in order to form a stable lyotropic liquid-crystal phase, (M)_n is the anti-ion M of Applicant and n is the number of anti-ions in the dye molecule (column 9, lines 45-60). Therefore the anisotropically absorbent layer of Miroshin is a liquid crystal layer.

Furthermore, Applicant is respectfully apprised that Applicant has not defined the liquid crystal layer(s) with respect to its functional and structural relationship as related to the other functional layers of the liquid crystal display, hence the validity of the broad interpretation of the claim.

3. Applicant argues that coordinating the numbers and parameters of all layers in the display to provide the interference extremum at the exit of the display is non-obvious to one of ordinary skill in the art, the reason being that in the prior art, only separate layers are considered in improving performance of liquid crystal displays.

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Applicant is respectfully apprised that Miroshin's teaching that the number and parameters of the anisotropic layers in the display are coordinated (number and layer thicknesses selected) so as to provide the interference minimum of transmission for one linearly polarized light component and the interference maximum of transmission for the other orthogonal linearly polarized light component at at least one wavelength transmitted at the exit (output) of the polarizer (column 7, lines 45-55) and hence the display, does provide motivation for one of ordinary skill in the art at the time the invention was made, to have coordinated the numbers and parameters of all layers in the display in order to provide the interference maximum and minimum of transmission at the exit of the display in order to obtain an optimized functional display.

4. Applicant argues that the performance of the liquid crystal display is optimized based on the open and closed states of the liquid crystal material, as well as on the optical thickness and sequence of functional layers, wherein the liquid crystal material is a dynamic element of a liquid crystal display and changes its optical characteristics under electrical field application.

Applicant is respectfully apprised that the liquid crystal layer as presently claimed, does not have an electrical field applied. Furthermore, the anisotropic layer of Miroshin is a liquid crystal layer (column 9, lines 45-60), which inherently would change its optical characteristics in response to an electrical field.

5. Applicant argues that Miroshin fails to teach or suggest an anisotropic electrode, only a transparent conductive layer, formed in an evaporator by successive deposition of corresponding materials. Applicant appears to consider conductivity as an isotropic property.

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Applicant is respectfully requested to provide data demonstrating that an electrode is required to be isotropic in order to be conductive. Furthermore, Applicant is respectfully apprised that Applicant has raised a potential issue of a lack of enablement since an electrode needs to be conductive. Applicant is hence respectfully requested to further clarify the term "anisotropic electrode".

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (571)272-1492. The examiner can normally be reached Monday to Friday from 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached at (571)272-1498. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sow-Fun Hon

10/25/04

SUPERVISORY PATENT EXAMINER

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